SECTOR CLASS 2 4 2 SUBCLASS ART UNIT 36 3 EXAMINER FILED WITH: DISK (CFF) FICH (Audited to possed on 497 traids to the subsequent to Sheets Drwg. Figs. Drwg. Print Fig. 2 CLAIMS ALLOWED CONTINUED IN STREET ON The term of this patent shall not acterd beyond the expiration die of U.S Patent No. Specific Sol. Specific Specific Sol. Specific Sol. Specific Specif		6000658		ICATIO	TAPPL	PATEN	.S. UTILITY	<b>O</b>	ISSUE CLASSIFICATION	347 599 Class Subclass		04/13/98	
PREPARED AND APPROVED FOR ISSUE    ISSUING CLASSIFICATION		4 1399	ATE						· .				
PREPARED AND APPROVED FOR ISSUE  ISSUING CLASSIFICATION  ORIGINAL  CLASS SUBCLASS CLASS SUBCLASS (ONE SUBCLASS PER BLOCK)  INTERNATIONAL CLASSIFICATION  INTERNATIONAL CLASSIFICATION  DRAWINGS  Sheets Drwg. Figs. Drwg. Print Fig: Total Claims Print Claim for O 22  ANABABLEL M. MARCEL 6-3D-19  LOUIS Patent. No. (date)  DONALD PWASH  SIRERVISORY PATENT EXAMINER  TECHNOLOGY CENTER 3600  (Printing Examinor)  LOUIS Patent No. (Date)  ISSUE FEE  Amount Due Date Paid  (D. S. 9-9  ISSUE BATCH NUMBER  WARNINGS  ISSUE FEE  Amount Due Date Paid  (D. S. 9-9  ISSUE BATCH NUMBER  WARNINGS  ISSUE FEE  Amount Due Date Paid  (D. S. 9-9  ISSUE BATCH NUMBER  The Information disclosed herein may be restricted. Unauthorized disclosure may be prohibited by the United States Code Title 35. Sections 122, 191 an Prossession outside the US Patent & Trademark Office is restricted to surfortized employees and contractors only.	20	MANCE	EXAMINER DA	53	INIT 36	ART	JBCLASS	s	242	CLASS	Ç	TOR	SEC
ISSUING CLASSIFICATION  ORIGINAL  CROSS REFERENCE(S)  SUBCLASS CLASS  SUBCLASS (ONE SUBCLASS PER BLOCK)  INTERNATIONAL CLASSIFICATION  INTERNATIONAL CLASSIFICATION  DRAWINGS  CLAIMS ALLOWED  Continued on Issue Slip Inside File Jacket  DRAWINGS  Sheets Drwg. Figs. Drwg. Print Fig.  Sheets Drwg. Figs. Drwg. Print Fig.  3 Total Claims Print Claim for O.  22  NOTICE OF ALLOWANCE MAILED  ISSUE FEE  Amount Due  Date Paid  (D. S. 9.9  ISSUE BATCH NUMBER  The Internation disclosed herein may be restricted. Unauthorized disclosur may be prohibited by the United States Code Tille 35, Sections 122, 181 an Prosession outside the U.S. Patent & Trademark Office is restricted to authorized employees and contractors only.	FICHE ide flap)	`		ILED WITH	F		V.			•			
ORIGINAL  CLASS  SUBCLASS  SUBCLASS (ONE SUBCLASS PER BLOCK)  INTERNATIONAL CLASSIFICATION  INTERNATIONAL CLASSIFICATION  DRAWINGS  CLAIMS ALLOWED  Sheets Drwg. Figs. Drwg. Print Fig. Total Claims Print Claim for O  3. 1 Total Claims Print Claim for O  3. 1 Total Claims Print Claim for O  3. 1 Total Claims Print Claim for O  4. 1 Total Claims Print Claim for O  5. 1 Total Claims Print Claim for O  1. 2 Total Claims Print Claim for O  1. 2 Total Claims Print Claim for O  2. 3 Total Claims Print Claim for O  3. 1 Total Claims Print Claim for O  3. 1 Total Claims Print Claim for O  3. 2 Total Claims Print Claim for O  3. 2 Total Claims Print Claim for O  4. 2 Total Claims Print Claim for O  5. 5 Total Claims Print Claim for O  5. 5 Total Claims Print Claim for O  1. 2 Total Claims Print Claim for O  1. 3 Total Claims Print Claim for O  2. 3 Total Claims Print Claim for O  3. 4 Total Claims Print Claim for O  3. 5 Total Claims Print Claim for O  4. 5 Total Claims Print Claim for O  4. 5 Total Claims Print Claim for O  4. 5 Total Claims Print Claim for O  5. 5 Total Claims Print Claim for O  5. 5 Total Claims Print Claim for O  6. 5 Total Claims Print Claim for O  9. 5 Total Claims Print Claim for O  1. 5 Total Claims			UE	R ISSU	ED FO	PPRO	RED AND	REP/	PR	-			
INTERNATIONAL CLASSIFICATION  INTERNATIONAL CLASSIFICATION    Continued on Issue Slip Inside File Jacket		·		N	CATIO	LASSIF	ISSUING C		3,		٠		`. `.
INTERNATIONAL CLASSIFICATION    Continued on Issue Silp Inside File Jacket	٠.		E(S)	EFERENCE(	CROSS RI				NAL	ORIGI			
TERMINAL DISCLAIMER  DRAWINGS  CLAIMS ALLOWED  Sheets Drwg. Figs. Drwg. Print Fig: Total Claims Print Claim for O  2  INOTICE OF ALLOWANCE MAILED  NOTICE OF ALLOWANCE MAILED  SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3600  (Primary Examiner)  C) The terminal months of this patent have been disclaimed.  WARNING:  The information disclosed herein may be restricted. Unauthorized disclosure may be prohibited by the United States Code Title 35, Sections 122, 181 and Prossession outside the U.S. Patent & Trademark Office is restricted to authorized employees and contractors only.		CK)	ASS PER BLO	NE SUBCLA	CLASS (OI	, SU	CLASS	ss	SUBCLASS	Τ	LSS	CLA	
TERMINAL DISCLAIMER  DRAWINGS  CLAIMS'ALLOWED  Sheets Drwg. Figs. Drwg. Print Fig: Total Claims Print Claim for O  2  NOTICE OF ALLOWANCE MAILED  NOTICE OF ALLOWANCE MAILED  (date)  LAMANUEL M. MARCEL G. 3D. 19  (Date)  NOTICE OF ALLOWANCE MAILED  NOTICE OF ALLOWANCE MAILED  NOTICE OF ALLOWANCE MAILED  NOTICE OF ALLOWANCE MAILED  LOS 99  LOS 99  Continued on Issue Slip Inside File Jacket  Print Claims Print Claim for O  2  NOTICE OF ALLOWANCE MAILED  LOS 99  LOS 99  Continued on Issue Slip Inside File Jacket  NOTICE OF ALLOWANCE MAILED  LOS 99  LOS 99  Continued on Issue Slip Inside File Jacket  NOTICE OF ALLOWANCE MAILED  LOS 90  LOS 99  Continued on Issue Slip Inside File Jacket  NOTICE OF ALLOWANCE MAILED  NOTICE OF A					·								
TERMINAL DISCLAIMER  Sheets Drwg. Figs. Drwg. Print Fig: Total Claims Print Claim for O  Disclaimed. Print Claim for O  DISCLAIMER  Sheets Drwg. Figs. Drwg. Print Fig: Total Claims Print Claim for O  DISCLAIMER  Sheets Drwg. Figs. Drwg. Print Fig: Total Claims Print Claim for O  DISCLAIMER  NOTICE OF ALLOWANCE MAILED  NOTICE OF ALLOWANCE MAILED  NOTICE OF ALLOWANCE MAILED  NOTICE OF ALLOWANCE MAILED  DISCLAIMES Print Claim for O  DISCLAIMES Print Claim for O  DISCLAIMES ALLOWED.  NOTICE OF ALLOWANCE MAILED  NOTICE OF ALLOWANCE MAILED  NOTICE OF ALLOWANCE MAILED  NOTICE OF ALLOWANCE MAILED  DISCLAIMES PRINT Examiner)  ISSUE FEE  Amount Due  Date Paid  (D. 5. 9.9  Total Claims  NOTICE OF ALLOWANCE MAILED  NOTICE OF ALLOWANCE MAILED  NOTICE OF ALLOWANCE MAILED  NOTICE OF ALLOWANCE MAILED  LOS JO 19  OCTOBER 1600  Date Paid  (D. 5. 9.9  ISSUE BATCH NUMBER  WARNING:  The information disclosed herein may be restricted. Unauthorized disclosure may be prohibited by the United States Code Title 35, Sections 122, 181 an Possession outside the U.S. Patent & Trademark Office is restricted to authorized employees and contractors only.								TION	LASSIFICAT	ONAL (	ATI	TERN	IN
TERMINAL DISCLAIMER  DRAWINGS  CLAIMS ALLOWED.  Sheets Drwg. Figs. Drwg. Print Fig: Total Claims Print Claim for O  DISCLAIMER  Sheets Drwg. Figs. Drwg. Print Fig: Total Claims Print Claim for O  DISCLAIMER  Sheets Drwg. Figs. Drwg. Print Fig: Total Claims Print Claim for O  DISCLAIMER  Total Claims Print Claim for O  DISCLAIMER  NOTICE OF ALLOWANCE MAILED  DISCLAIMES ALLOWED.  Print Claim for O  DISCLAIMES ALLOWED.  NOTICE OF ALLOWANCE MAILED  N	-	*							7				٦
TERMINAL DISCLAIMER  DRAWINGS  CLAIMS ALLOWED.  Sheets Drwg. Figs. Drwg. Print Fig: Total Claims Print Claim for O  DISCLAIMER  Sheets Drwg. Figs. Drwg. Print Fig: Total Claims Print Claim for O  DISCLAIMER  Sheets Drwg. Figs. Drwg. Print Fig: Total Claims Print Claim for O  DISCLAIMER  Total Claims Print Claim for O  DISCLAIMER  NOTICE OF ALLOWANCE MAILED  DISCLAIMES ALLOWED.  Print Claim for O  DISCLAIMES ALLOWED.  NOTICE OF ALLOWANCE MAILED  N						-00			/				7
TERMINAL DISCLAIMER  Sheets Drwg. Figs. Drwg. Print Fig: Total Claims Print Claim for O  Disclaimed. Print Claim for O  DISCLAIMER  Sheets Drwg. Figs. Drwg. Print Fig: Total Claims Print Claim for O  DISCLAIMER  Sheets Drwg. Figs. Drwg. Print Fig: Total Claims Print Claim for O  DISCLAIMER  NOTICE OF ALLOWANCE MAILED  NOTICE OF ALLOWANCE MAILED  NOTICE OF ALLOWANCE MAILED  NOTICE OF ALLOWANCE MAILED  DISCLAIMES Print Claim for O  DISCLAIMES Print Claim for O  DISCLAIMES ALLOWED.  NOTICE OF ALLOWANCE MAILED  NOTICE OF ALLOWANCE MAILED  NOTICE OF ALLOWANCE MAILED  NOTICE OF ALLOWANCE MAILED  DISCLAIMES PRINT Examiner)  ISSUE FEE  Amount Due  Date Paid  (D. 5. 9.9  Total Claims  NOTICE OF ALLOWANCE MAILED  NOTICE OF ALLOWANCE MAILED  NOTICE OF ALLOWANCE MAILED  NOTICE OF ALLOWANCE MAILED  LOS JO 19  OCTOBER 1600  Date Paid  (D. 5. 9.9  ISSUE BATCH NUMBER  WARNING:  The information disclosed herein may be restricted. Unauthorized disclosure may be prohibited by the United States Code Title 35, Sections 122, 181 an Possession outside the U.S. Patent & Trademark Office is restricted to authorized employees and contractors only.	:												٦
TERMINAL DISCLAIMER  Sheets Drwg. Figs. Drwg. Print Fig: Total Claims Print Claim for O  Disclaimed. Print Claim for O  DISCLAIMER  Sheets Drwg. Figs. Drwg. Print Fig: Total Claims Print Claim for O  DISCLAIMER  Sheets Drwg. Figs. Drwg. Print Fig: Total Claims Print Claim for O  DISCLAIMER  NOTICE OF ALLOWANCE MAILED  NOTICE OF ALLOWANCE MAILED  NOTICE OF ALLOWANCE MAILED  NOTICE OF ALLOWANCE MAILED  DISCLAIMES Print Claim for O  DISCLAIMES Print Claim for O  DISCLAIMES ALLOWED.  NOTICE OF ALLOWANCE MAILED  NOTICE OF ALLOWANCE MAILED  NOTICE OF ALLOWANCE MAILED  NOTICE OF ALLOWANCE MAILED  DISCLAIMES PRINT Examiner)  ISSUE FEE  Amount Due  Date Paid  (D. 5. 9.9  Total Claims  NOTICE OF ALLOWANCE MAILED  NOTICE OF ALLOWANCE MAILED  NOTICE OF ALLOWANCE MAILED  NOTICE OF ALLOWANCE MAILED  LOS JO 19  OCTOBER 1600  Date Paid  (D. 5. 9.9  ISSUE BATCH NUMBER  WARNING:  The information disclosed herein may be restricted. Unauthorized disclosure may be prohibited by the United States Code Title 35, Sections 122, 181 an Possession outside the U.S. Patent & Trademark Office is restricted to authorized employees and contractors only.						-		41. 44					
DISCLAIMER  Sheets Drwg. Figs. Drwg. Print Fig: Total Claims Print Claim for O  22  NOTICE OF ALLOWANCE MAILED  NO	it	nside File Jacket	on Issue Slip In	Continued of									
DISCLAIMER  Sheets Drwg. Figs. Drwg. Print Fig: Total Claims Print Claim for O  22  NOTICE OF ALLOWANCE MAILED  NO				. *									
a) The term of this patent subsequent to		ALLOWED	CLAIMS			VINGS	DRA		·····	MINAL	ERI	-, T	Г
a) The term of this patent subsequent to	or O.G.	Print Claim fo	Total Claims		gs. Drwg. Print Fig.		ets Drwg. Fig	Sh					
a) The term of this patent subsequent to			2	2	1	5	$\boldsymbol{\Omega}$						
as been disclaimed.    Donald P. Walsh   Donald	LED	WANCE MAIL	ICE OF ALLO	NOTIC	•			+					
of U.S Patent. No.    DUNALD P-WALSH   ISSUE FEE	2	a) The term of this patent shall not extend beyond the expiration date of U.S Patent. No											
SURERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3600  (Primary Examiner)  (Primary Examiner)  (Date)  ISSUE BATCH NUMBER  (Lagal Instruments Examiner)  WARNING: The information disclosed herein may be restricted. Unauthorized disclosure may be prohibited by the United States Code Title 35, Sections 122, 181 and Possession outside the U.S. Patent & Trademark Office is restricted to authorized employees and contractors only.	EA												
(Primary Examiner)  (Primary Examiner)  (Date)  (D 5:99  ISSUE BATCH NUMBER  (Legal Instruments Examiner)  (Date)  (Da	aid H												
Ussue Batch Number  [Continuous patent have been disclaimed.]  [Legal Instruments Examiner]  [Continuous patent have been disclosed herein may be restricted. Unauthorized disclosure may be prohibited by the United States Code Title 35, Sections 122, 181 and Possession outside the U.S. Patent & Trademark Office is restricted to authorized employees and contractors only.		1 0	5	P(00)									
warning: The information disclosed herein may be restricted. Unauthorized disclosure may be prohibited by the United States Code Title 35, Sections 122, 181 an Possession outside the U.S. Patent & Trademark Office is restricted to authorized employees and contractors only.	<u> </u>	(0.)	ISSUE BATO	10	(Date)	,	(Primary Examine	₹.					L
The information disclosed herein may be restricted. Unauthorized disclosure may be prohibited by the United States Code Title 35, Sections 122, 181 an Possession outside the U.S. Patent & Trademark Office is restricted to authorized employees and contractors only.  Form PTO-436A		c) The terminalmonths of is patent have been disclaimed. (Legal Instruments Examiner) (Date)											
Form PTO-436A	11 and 268	Sections 122, 181	es Code Title 35,	United States actors only.	nibited by the es and contra	ure may be pr lorized employ	. Unauthorized disclo	) restricter ademark (	herein may be re S. Patent & Trade	n disclose	ation	e inform	Th
(Rev. 10/97)		-									36A	PTO-4	Form
· · · · · · · · · · · · · · · · · · ·	,	/ ;											(ITEN
Formal Drawings ( shts) set (LABEL AREA)			_ /	lma			N 4 6	•		_			

The second of th	STAPLE	AREA	≄Ú.S. GOVERN	OVERNMENT PRINTING OFFICE: 1998-440		
			(	Ö	$\circ$	
PATENT NUMBER			SIFICATION			
	CLASS	S	E99			
APPLICATION SERIAL NUMBER	,	CF	ROSS REFEREN	CE(S)		
09/059,994	CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				
APPLICANT'S NAME (PLEASE PRINT)	242	564,2	590	598.6	905	
	4	300.1				
IF REISSUE, ORIGINAL PATENT NUMBER	D6	519				
		<u>.</u>				
INTERNATIONAL CLASSIFICATION		<u>.</u>				
B65H 16/06		<u> </u>			,	
	GROUP AS	SISTANT EXAM	INER (PLEASE STAM	OR PRINT FULL NA	(ME)	
	PR	PRIMARY EXAMINE PILEASE STAND OR PRINT FULL NAME)				
PTO OTO	SUE CLASSII	TICATION S	ECHNOLOGY CE	NTER SEPARTMI	ENT OF COMMERC	